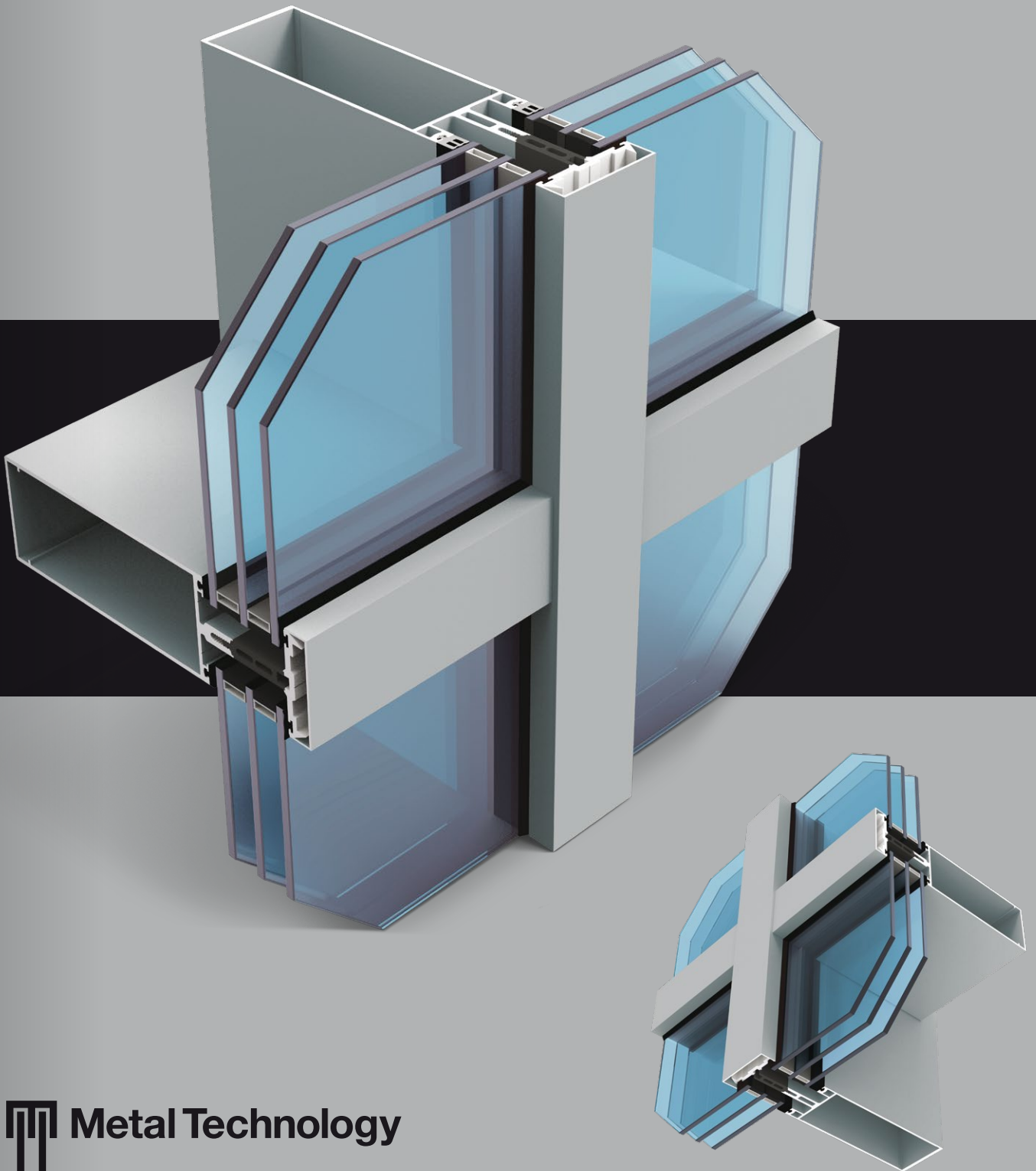


System 17-65

65mm Capped Curtain Walling



System 17-65

The 17-65 65mm curtain walling system is designed for use in high rise or multi storey applications. Glazing and curtain wall systems need to be designed to work in harmony with the building construction. The consequence of this can be greater structural spans resulting in increased building movement. Metal Technology's System 17-65 has been designed to help address one of the main complexities associated with this type of construction, that of accommodating greater floor slab deflection.

Scope

The 65mm curtain walling system provides greater clearance for the glass units to move within the curtain walling profiles thereby allowing the system to accommodate greater differential mullion movement often associated with larger spans and increased floor slab deflection. This can be achieved without compromising on glass cover or performance of the system.

The system has been designed with a range of structural mullions and transoms from 50mm to 225mm with a wide selection of projecting caps allowing architects and designers a variety of aesthetic solutions. Flat cap pressure plates offer a cost effective alternative to Silicon Pointing (SP) while still accommodating increased building movement and floor slab deflection. Bespoke profiles can be produced subject to volume and lead times to allow architects to achieve flexible designs.

Materials

Aluminium profiles are extruded from aluminium alloy 6060 T6 complying with the recommendations of BS EN 12020-2 / BS EN 755-Parts 1 to 9.

Finishes

The range of sections can be provided in either of the following ranges of finishes:

1. Anodised to BS 3987 or BS EN ISO 7599.
 2. Powder organic coated to BS EN 12206-1.
- Where required, a different colour / finish can be provided internally and externally.

Construction

Mullions are square cut and jointed using specially designed jointing spigots. Transoms have notched ends to ensure an easily weather-proofed joint can be provided between mullion and transom. The system is mullion drained and provision is made to drain water out of the mullion at regular intervals.

The system offers the facility to produce screens faceted on plan. Gaskets provide the facility of faceting up to 10°.

Opening Vents / Door Inserts

Details and specifications for the opening vents and doors can be found in the Metal Technology **THERMAL** manuals. For frameless vents, refer to the System 17 Concealed Vent manual.

Installation

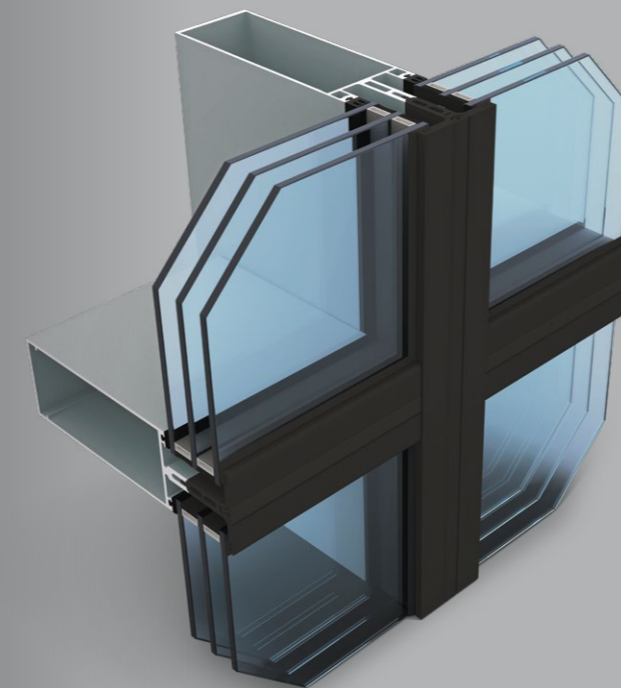
The Metal Technology High Rise Curtain Wall system is designed as a 'Stick' built system. Therefore, mullions and transoms are transported to site as prepared components and the grid work is assembled onto the building in stick form.

Extruded profiles for manufacturing adjustable structural brackets capable of accommodating site tolerance, thermal and structural movement are available. These allow the curtain walling to be fixed to the structure easily and securely so that all loads are transferred back to the building's main structural form.

Expansion joints are allowed on every floor or every other floor to accommodate any building movement.

Glazing

Glazed units up to 54mm can be achieved for standard capped system or 51mm for flat pressure cap option. High performance gaskets will ensure the long term weather-tightness of the system. Optional pre-formed vulcanised corner mouldings may be used internally.



Flat pressure cap option

Performance

The curtain walling system has been successfully tested to BS EN 13050 for weather testing, and CWCT hosepipe tested. The system met the requirements of the CWCT dynamic test for curtain walling and achieved the following results:

Air permeability	- 600 Pa
Water tightness	- 600 Pa
Wind resistance	- 2400 Pa
Dynamic water tightness	- 600 Pa
Wind load (safety)	- 3600 Pa

The system has been successfully impact tested in accordance with CWCT section 15, BS EN 13049 and BS EN 14019.

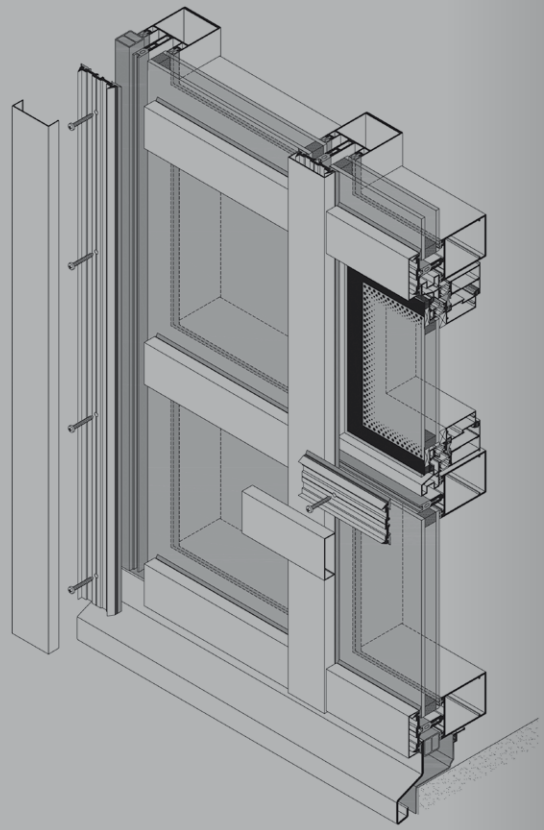
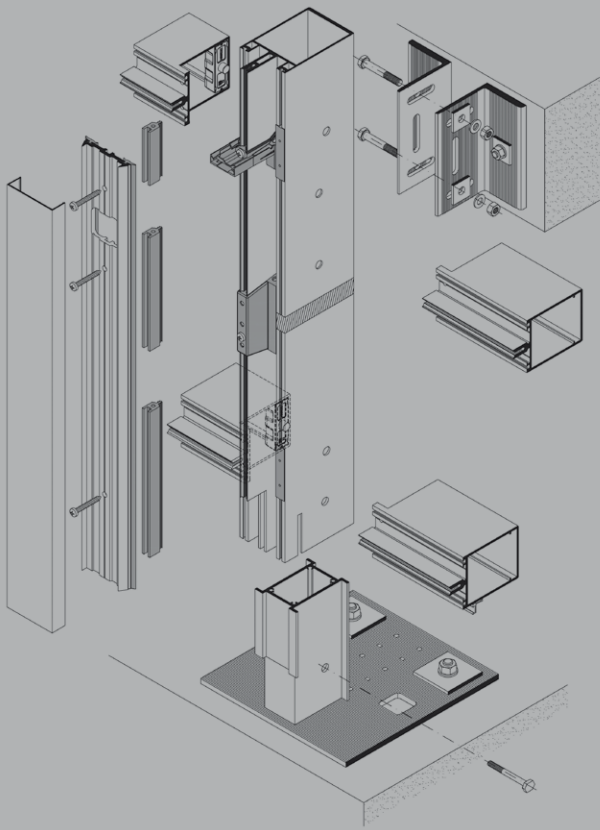
Acoustic

The system has been successfully acoustically tested to BS EN 10140-2.

Security

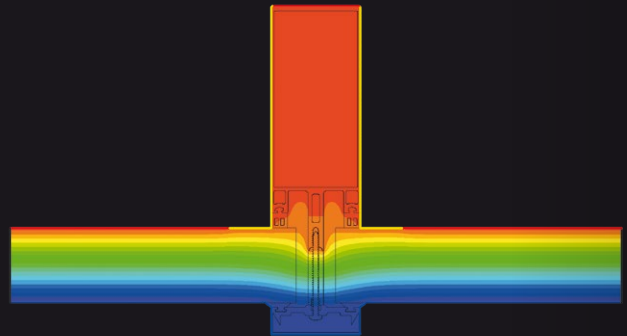
System 17-65 has been tested utilising the glazing retention test within PAS 24 to comply with Secured by Design criteria.





Thermal Performance

System 17-65 curtain walling, in conjunction with the correct glass specification, is designed to aid compliance with the latest thermal requirements of the current building regulations.



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